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News Summary

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Humanities researchers say their field is seeing a growth in the use of computers: Page A6.

The summer reading lists of many academics are conspicuously free of budget reports or other college business, a survey reveals: Page A11.

Battles over whether state colleges should be forced to open their records and meetings to the public continue to heat up: Page A18.

As states contend with tight budgets, reviews to consolidate or eliminate academic programs are becoming routine: Page A18.

Will "Brilliant Pebbles" affect the millions of dollars of Star Wars research conducted at universities?: Page A19.

The Education Department is battling 22 student-loan agencies over rights to \$200-million: Page A19.

Summer programs for high-school students are being offered by more colleges to fill empty classrooms and give the students an introduction to college life: Page A31.

Football players who don't want to go to college will be offered another route to the professional league, beginning this summer: Page A34.

A university in Amman, Jordan, is trying to substitute for Palestinian institutions closed by the Israeli army in the occupied territories: Page A35.

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New U.S. Visa Rules for Chinese Students Challenged as Risky

By GOLDIE BLUMENSTYK

WASHINGTON

Chinese citizens studying in the United States are urging the Bush Administration and Congress to alter the newly announced rules for obtaining extensions on their visas.

The students say the current program is not helpful to them and fear that some of its requirements could unwittingly mark them or their families for retribution by the Chinese government.

The students' message is provoking a response on Capitol Hill, where several bills have been introduced to make it easier

China may be limiting its approval of requests for foreign study to students with politically correct attitudes: Page A35.

for Chinese students to remain in the United States until the violence and political repression in China cease.

Among them is a measure by Rep. Nancy Pelosi, a California Democrat, which already has 158 co-sponsors. In the Senate it is being sponsored by Alan J. Dixon, Democrat of Illinois. A nearly identical bill has been introduced by Democratic Senators Herbert H. Kohl of Wisconsin and Alan Cranston of California.

"If a single Chinese student can stand up to a tank in Beijing, we should be able to stand up to bureaucracy in America to pre-

Continued on Page A36

Supreme Court Ruling Clears the Way for States to Limit Abortions in Hospitals Affiliated With Public Universities

Support for laws is strong in farm belt and the South

By SCOTT JASCHIK

WASHINGTON

The Supreme Court's decision last week to uphold a Missouri law restricting abortion clears the way for states to enact legislation to bar the faculty members and hospitals of public universities from performing most such operations.

Only Missouri institutions will be imme-

diately affected by the ruling, since that is the only state that has such a law in place. But advocates on both sides of the abortion issue predict that in nearly every state, lawmakers will introduce legislation similar to the Missouri law in next year's sessions.

Estimates vary on the number of states likely to adopt the laws, but most abortion-law experts say that about 10—mostly in the South or the farm belt—are likely to do so. Another 10 states are considered unlikely to pass the laws, and the outcome in the remaining 30 states is uncertain.

For public universities with medical schools, the debates over abortion legislation will be thorny.

'It's an Impossible Issue'

Some deans and hospital directors say university hospitals have an obligation to insure that women can obtain abortions at their facilities. Others say that public universities, because they are financed by taxpayers, must consider their community's views on abortion and adopt restrictions on the services they offer. Still others say that, regardless of their views, universities risk a loss of financial support if they continue to provide abortions to all women who seek them.

"It's an impossible issue from a political

Continued on Page A25



James J. Mongan: "One can argue that it's a terrible infringement on academic freedom. What's next? Gallbladders? But then others say abortion is murder."

RENEWED VIOLENCE ROILS SOUTH KOREA'S CAMPUSES



Riot police round up a group of radical students at Hanyang University in Seoul, where more than 4,000 protesters had gathered for an anti-government rally: Page A35.

AP/WIDE WORLD

MARGINALIA

Notice on the wall of the photocopying room of Alexander Library at Rutgers University:

"Our cleaning staff resigned and your mother refuses to answer our calls, so . . .

"PLEASE return all materials to the shelves outside the door. THANKS!"

We have received the following communiqué from Joyce E. Ashcroft, a staff member at St. Paul's School in Concord, N.H.:

"As an executive secretary at this private boarding school, I was recently the lucky recipient of a memo from the upper echelon. In it, they detail some new terminology which is to be adopted for all of our publications.

"We must now refer to our dormitories as 'houses,' and we may not capitalize 'house' as we have in the past in order to distinguish a 'House' (dorm) from a 'house.'

"The application of this new rule resulted in the following first-draft passage from the new faculty handbook: 'You will be assisted by an older faculty member who has had many years' experience in a house but who no longer lives in a house.' This will come as a shock to new faculty who anticipated better conditions at our facility. Where *do* the senior faculty live? In covered wagons?

"Secretaries are not expected to solve these problems, which is only fair because we do not cause them. We merely bring them to the Rector (you must capitalize 'Rector,' but you may no longer capitalize 'vice rector'). Then the English department (you may capitalize 'English,' but not 'department') will mull it over until September (capitalization of which is still, as far as I know, acceptable) and then perhaps they will offer us a solution a few hours before the new faculty members arrive for Opening Day at the School (yes, believe it or not, that *is* correct by our rules).

"We are a little ConFused, but i'M suRe we'Ll soon gEt the hanG of iT."

More from New Hampshire, whence an anonymous reader has sent us a copy of a flyer from the Department of Independent Living at the Pennsylvania State University. Our correspondent marked this passage:

"Go-60 offers persons 60 and older who are retired or work less than part time the opportunity to enroll in credit courses for one-half the regular cost of tuition."

"Although being retired is different from being unemployed," our correspondent writes, "I'm not sure how much one works to work less than part time. Perhaps this is a concept based on a work continuum from retirement to full-time employment?"

—C.G.

In Brief

Animal-Rights Group Damages Texas Tech Lab

LUBBOCK, TEX.—An animal-rights group broke into a laboratory at Texas Tech University's Health Sciences Center last week, stealing five cats and causing some \$70,000 in damage.

The cats, which were used in sleep research, were taken from the laboratory of John Orem, a professor of physiology. Equipment was also vandalized and documents were stolen, officials reported.

In a statement, an underground group calling itself the Animal Liberation Front claimed responsibility for the incident. The statement, which was released through the Washington-based People for the Ethical Treatment of Animals, quoted unidentified members of the Animal Liberation Front charging that Mr. Orem used inhumane research methods, such as bolting the cats' heads into steel clamps.

Mr. Orem denied the charge, calling it "sensational nonsense." His work, he said, involves the study of breathing during sleep, including disorders such as sudden infant death syndrome and apnea.

Strikers End 5-Day Fast to Protest Telescope Site

TUCSON, ARIZ.—Hunger strikers at the University of Arizona last week ended a five-day fast staged to protest the institution's plans to construct three telescopes on a 10,000-foot mountain.

The three protesters contended that the telescopes would be used for military research, including work for the Strategic Defense Initiative, the missile-defense system commonly known as "Star Wars."

The protesters also said the uni-

versity's plans to build the telescopes in an observatory on Mount Graham, located about 120 miles northeast of Tucson, would damage the mountain environmentally.

Steve Emerine, a spokesman for the university, said the telescopes would not be used for any military research, nor would they endanger the mountain's ecology.

The university has developed a "revolutionary way of casting mirrors for telescopes" that provides a better image, is less costly, and is lighter in weight than older instruments, Mr. Emerine added.

Before the university can build the observatory, it must construct a road up the mountain. That work will begin in August.

Campus Radio Station Destroyed by Fire

DENTON, TEX.—A fire at the student-run radio station at the University of North Texas destroyed almost \$150,000 in equipment and most of the organization's recorded music.

Half of KNTU's 5,000 records

organization's 130-year history.

Mr. Geiger, who has been the N.E.A.'s vice-president for the past six years, defeated John I. Wilson, a member of the association's executive committee, 4,870 to 3,600. Mr. Geiger will lead the 1.97-million-member union for two years.

In March the N.E.A.'s 250-member National Council for Higher Education endorsed Mr. Geiger.

Carol Gaede, a professor of speech at Moorhead State University who just finished her term as vice-president of the council, said its members believed that under Mr. Geiger's leadership, the N.E.A. would focus more attention on higher-education issues than would have been the case under Mr. Wilson.

She said the N.E.A. could now be expected to budget more money for its higher-education programs.

Teachers' Union Elects New President

WASHINGTON

In what has been called a victory for higher-education interests, Keith B. Geiger last week was elected president of the National Education Association, the nation's largest teachers' union.

Nearly 8,500 delegates to the N.E.A.'s annual national meeting voted to choose a successor to Mary Hatwood Futrell, the three-term president said by some to have been the most popular president in the

and all of its 250 compact discs were lost in the blaze.

The local fire department is investigating the fire, which is believed to have been an accident.

The students went back on the air the following day using borrowed equipment and a temporary office in another building.

Archaeological Site Vandalized in Oregon

PORTLAND, ORE.—An archaeological site at Scappoose, Ore., being worked by faculty members and students from Portland State University, has been vandalized, apparently by professional artifact robbers.

By taking many artifacts and trashing parts of the dig, the first full-scale excavation of an American Indian house in the Portland area, the robbers ruined two years' worth of work by Portland State researchers. The anthropologists said they would be unable to gain a complete picture of the operation of the building, a large, cedar house in which about 75 people lived 500 to 700 years ago.

University officials said they

had learned that a small group of artifact robbers was being blamed for a large number of similar thefts around the country, many at Indian grave sites. Arrowheads can be sold for up to \$150 each, and other artifacts for even more.

Tufts U. Sets Policy Limiting Expression

MEDFORD, MASS.—Tufts University has instituted a policy that limits the exercise of free speech in certain areas of its campus.

The policy, which will go into effect this fall, was developed by a student-faculty committee in response to a controversy sparked by the sale on campus by a student of T-shirts deemed offensive to women. The printing on the shirts gave 15 reasons "Why Beer is Better than Women at Tufts." All of the reasons were disparaging to women, according to Bruce J. Reitman, associate dean of students. The student who sold the shirts was placed on probation, which was later revoked.

The policy provides for free expression in most public areas of the campus but identifies several

Institutes of Health Find That Purdue Professor Plagiarized Experiments

By CHRIS RAYMOND

BETHESDA, MD.

The National Institutes of Health have found C. David Bridges, a professor of biological sciences at Purdue University, guilty of plagiarizing experiments from a manuscript submitted to him for review.

Calling Mr. Bridges' actions "reprehensible," the institutes will strip him of all current N.I.H. grants and exclude him for 10 years from serving on peer-review committees for any proposals submitted to the Department of Health and Human Services.

Furthermore, the N.I.H. has recommended to the Secretary of Health and Human Services that he prevent Mr. Bridges from receiving government research funds in the future. A final decision on such a step has not been made, and Mr. Bridges is allowed to request a hearing.

According to Katherine L. Bick, deputy director for extramural research at the N.I.H., this

is the first time in the eight-year history of the institutes' misconduct investigations in which the issue has been raised of the abuse of privileged information gained during a manuscript review.

Baylor Also Held Inquiry

The N.I.H. decision followed an investigation that began in September. It came on the heels of a similar investigation conducted by officials at the Baylor College of Medicine, where Mr. Bridges formerly worked and where the plagiarism occurred.

The findings were released to the involved parties on June 29, but had not been made public. A copy of the report was made available to *The Chronicle*.

Both investigations came to a similar conclusion: that Mr. Bridges had used information he gleaned from a manuscript sent to him for review to set up his own experiments and gain credit for publishing the results first.

The manuscript was written by

three scientists at Harvard Medical School and had been sent out for review in 1986 by editors at the *Proceedings of the National Academy of Science*. It concerned experiments on the role played by a key enzyme in the vision process. Many think the line of research has produced a crucial missing link in advancing the understanding of human vision.

Mr. Bridges published his own research on the same subject on June 26, 1987, in the journal *Science*, with only a single reference in a footnote to the work already completed by the Harvard group. The *PNAS* manuscript of Paul S. Bernstein and his colleagues at Harvard was published later that year in *PNAS*. *Science* will publish a notice in its July 14 edition acknowledging the priority of the Harvard scientists for the work described in the *Science* article.

Mr. Bridges contended that he had begun his research before receiving the *PNAS* manuscript,

but he has never submitted original laboratory notes to support his claim, the N.I.H. report says. The Baylor committee concluded that Mr. Bridges had actually altered his records to make it look as though he had begun his experiments in May 1986, rather than in July.

NIH Took Up Issue in 1987

Baylor notified the National Eye Institute of the investigation, since Mr. Bridges was receiving research funds from the institute, which is part of the N.I.H. When the N.I.H. took up the issue in the summer of 1987, it notified Purdue of its investigation. Mr. Bridges had moved to Purdue before Baylor's investigation was completed, according to Ms. Bick. She said Baylor should be credited with following through on its investigation even though Mr. Bridges had left the university.

Mr. Bridges could not be reached for comment.

FACT FILE: Colleges and Universities With Collective-Bargaining Agents in 1988

The following table lists institutions where faculty members were represented by certified collective-bargaining agents in 1988, and thus were entitled to bargaining rights.

The figures were compiled by the National Center for the Study of Collective Bargaining in Higher Education and the Professions. The center is housed at the City University of New York's Baruch College.

Generally, the statistics include full-time faculty members, but they may also include other faculty members covered by the same bargaining agent. Because of reporting inconsistencies, institutions do not always specify the makeup of the bargaining unit. In some cases, different faculty groups at the same campus may be represented by different agents. Institutions that list more than one agent for the same unit have joint representation.

In the tables below, private institutions are indicated by an asterisk.

The number in parentheses after an institution's name indicates the number of campuses covered by the same bargaining agent.

Subsequent tables provide the total number of faculty members and campuses nationwide that are represented by faculty bargaining agents, and a list of institutions whose agents were decertified as a result of litigation arising from the 1980 *Yeshiva University* decision. In that case, the Supreme Court ruled that Yeshiva's professors were managerial employees and therefore not entitled to bargaining rights. Most agents were decertified by the National Labor Relations Board, but some voluntarily withdrew their certifications after their campuses initiated litigation.

The center's most recent report is available for \$25 from N.C.S.C.B.H.E.P., Baruch College, 17 Lexington Avenue, Box 322, New York 10010; (212) 725-3390.

ALASKA

Prince William Sound CC AFT

ARIZONA

Pima CC (4) PCCEA/AEA/NEA

CALIFORNIA

Antelope Valley C NEA

Barstow CC CTA/NEA

Butte C CTA/NEA

Cabrillo C AFT

Cal St U (19) CFA/AAUP/NEA

Chabot C (2) NEA

Chaffey CC CTA/NEA

Citrus C CTA/NEA

Claremont C's* librarians (6) OPEIU

Coast CC Dist (3) AFT

part-time faculty NEA

C of the Redwoods Ind

C of the Sequoias NEA

Compton CC AFT

Contra Costa CC Dist (3) Ind

El Camino CC AFT

Foothill-DeAnza CC Dist (4) Ind

Gavilan CC NEA/CTA

Glendale CC AFT

Grossmont/Cuyamaca CC Dist (2) Ind

Hartnell CC NEA/CTA

Imperial Valley C NEA/CTA

Kern CC Dist (3) CTA/NEA

Lassen CC AFT

Long Beach City C (2) CTA/NEA

Los Angeles CC Sys (9) AFT

Los Rios CC Sys (3) AFT

Marin CC (2) AFT

Merced C NEA

Monterey Peninsula CC NEA

Mount San Antonio C NEA

Mount San Jacinto C NEA

Napa Valley C NEA

North Orange Co CC (2) NEA

Palo Verde CC CTA/NEA

Pasadena City C CTA/NEA

Peralta CC Dist (5) AFT

Rancho Santiago CC Dist Ind

Rio Hondo CC CTA/NEA

Riverside CC Dist NEA/CTA

Saddleback CC Dist (2) NEA/CTA

San Bernardino CC (2) NEA

San Diego CC (3) AFT

San Diego CC Adult Ed Sys (10) AFT

San Francisco CC (2) AFT

San Joaquin Delta C CTA/NEA

San Jose CC Dist (2) NEA

San Mateo CC Dist (3) AFT

Santa Barbara CC Ind

Santa Clara CC Dist CTA/NEA

Santa Monica CC Ind

Shasta C CTA/NEA

Sierra Joint CC Dist CTA/NEA

Solano CC CTA/NEA

Southwestern C NEA

State Center CC Dist (2) AFT

Taft C CTA/NEA

U of California

Lecturers (9) AFT

Faculty Santa Cruz SCFA/AAUP

U of San Francisco

Full-time faculty AFT

Adjunct faculty AFT

U of San Francisco Law Sch* Ind

Ventura Co CC Dist (3) AFT

Victor Valley C CTA/NEA

West Hills C NEA

West Valley Mission CC Dist (2) ACE

Yosemite CC Dist (2) NEA

Yuba C NEA

CONNECTICUT

Connecticut CC

Sys (12) CCCC/AAUP/NUHCE

Connecticut St Tech C's (5) AFT

Connecticut St U Sys (4) AAUP

Mitchell C* AFT

Post C* PCFA

Quinnipiac C* AFT

U S Coast Guard Acad AFGE

U of Bridgeport* AAUP

U of Connecticut (6) AAUP

IOWA—Continued

Kirkwood CC NEA

Northwest Iowa Tech Inst Area 1 (2) NEA

Northwest Iowa Tech C Area 4 NEA

Southwestern CC (2) NEA

U of Northern Iowa NEA

Western Iowa Tech CC NEA

KANSAS

Butler Co CC NEA

Cloud Co CC NEA

Coffeyville CC Ind

Colby CC NEA

Cowley Co CC NEA

Dodge City CC Ind

Fort Scott CC Ind

Garden City CC NEA

Hutchinson CC NEA

Independence CC NEA

Johnson Co CC NEA

Kansas City Kansas CC NEA

Labette CC (2) NEA

Pittsburg St U NEA

Pratt CC NEA

MAINE

Me Voc Tech Inst Sys (6) NEA/MTA

U of Maine Sys (7) NEA

MARYLAND

CC of Baltimore (2) AFT

Montgomery C (3) AAUP

Towson St U AAUP

MASSACHUSETTS

Becker JC* (2) AFT

Berklee C of Music*

Full-time faculty AFT

Part-time faculty AFT

Emerson C* AAUP

Endicott C* NEA

Laboure C* NEA

Massachusetts CC

Sys (17) NEA/MTA/MCCC

Massachusetts St C's (9) NEA/MTA

Simon's Rock of Bard C*

Southeastern Massachusetts U AFT

Part-time and visiting lecturers AFT

U of Lowell MSP/MTA/NEA

U of Mass (2) MSP/FSU/MTA/NEA

Wentworth Inst of Tech* (2) AFT

MICHIGAN

Adrian C* NEA

Alpena CC NEA

Baker JC of Business* NEA

Bay de Noc CC NEA

Central Michigan U NEA

Detroit C of Business* NEA

Eastern Michigan U AAUP

Ferris St C NEA

Glen Oaks CC NEA

Gogebic CC NEA

Grand Rapids JC Ind

Henry Ford CC (2) AFT

Highland Park CC AFT

Jackson CC NEA

Kalamazoo Valley CC NEA

Kellogg CC MEA/NEA

Kendall Sch of Design* NEA

Kirtland CC AFT/MFT

Lake Superior St U MEA/NEA

Lansing CC NEA

Macomb Co CC (2) Ind

Mid-Michigan CC MEA/NEA

Monroe Co CC NEA

Montcalm CC NEA

Mott CC NEA

Muskegon CC NEA

North Central Michigan C NEA

Northern Michigan U AAUP

Oakland CC (4) NEA/MEA

Oakland U AAUP

Saginaw Valley St C NEA

St Clair Co CC NEA/MEA

Schoolcraft C MEA/NEA

U of Detroit* NEA

U of Michigan

teaching assistants (3) AFT

Washtenaw CC NEA

Wayne Co CC (5) AFT

Wayne St U AAUP

West Shore CC MEA/NEA

Western Michigan U AAUP

MINNESOTA

Minnesota CC Sys (18) MCCCFA/NEA

Minn St U Sys (7) NEA/IFO/MEA

U of Minn Duluth & Waseca NEA

MISSOURI

Park C* AFT

St Louis CC (3) NEA

MONTANA

Dawson CC AFT

Eastern Montana C AAUP

Miles CC Ind

Northern Montana C AFT

U of Montana AFT

Western Montana C AFT

NEBRASKA—Continued

Mid-Plains Tech CC Area (2) NEA

Nebraska St C's (3) SCEA/NEA

Southeast CC (3) Ind

U of Nebraska Omaha AAUP

U of Nebraska C of Law Ind

Western Nebraska CC (2) NEA

NEW HAMPSHIRE

Franklin Pierce C* AFT

Keene St C NEA

NEW JERSEY

Atlantic CC NEA

Bergen CC NEA

Bloomfield C* AAUP

Brookdale CC NEA

Burlington Co C NEA

FACT FILE—Continued

OREGON

Blue Mountain CC	NEA
Central Oregon CC	Ind
Chemeketa CC	NEA/OEA
Adjunct faculty	NEA/OEA
Clackamas CC	NEA/OEA
Clatsop CC	NEA
Lane CC	NEA
Linn-Benton CC	Ind
Mount Hood CC	
Full-time faculty	Ind
Part-time faculty	OEA
Portland CC (3)	OFT/AFT
Part-time faculty	OFT/AFT
Portland St U	AAUP
Part-time faculty	AFT
Rogue CC	NEA/OEA
Southern Oregon St C	Ind
Southwestern Oregon CC	AFT
Treasure Valley CC	NEA
U of Oregon	
grad teaching fellows	AFT
Western Oregon St C	AFT
W Sts Chiropractic C*	Ind/AFT

PENNSYLVANIA

Bucks Co CC	AFT
CC of Allegheny Co (4)	AFT
CC of Beaver Co	NEA
CC of Philadelphia	AFT
Adjunct faculty	AFT
Delaware Co CC	NEA
Lackawanna JC*	NEA
Lehigh Co CC	NEA
Lincoln U	AAUP
Luzerne Co CC	NEA
Montgomery Co CC	AFT
Moore C of Art*	AFT
Northampton Co Area CC	AFT
Pa St Sys of	
Higher Education (14)	APSCUF/AFT
Reading Area CC	AFT
Robert Morris C*	AFT
Spring Garden C*	AFT
Temple U (3)	AAUP/AFT
Temple U Law Sch	Ind
U of Pittsburgh	
Medical Sch	Ind
U of Scranton	Ind
Westmoreland Co CC	NEA
Williamsport Area CC (2)	NEA

RHODE ISLAND

Bryant C*	AFT
CC of Rhode Island (2)	NEA
Rhode Island C	AFT
Rhode Island Sch of Design*	NEA
Adjunct faculty	NEA
Roger Williams C* (2)	NEA
U of Rhode Island	AAUP

SOUTH DAKOTA

National C of Business*	NEA
South Dakota Bd of Regents Sys (6)	NEA

VERMONT

Vermont St C's (4)	AFT
Adjunct faculty	AFT

VIRGINIA

Marymount U*	AAUP
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WASHINGTON

Bellevue CC	NEA
Big Bend CC	WEA/NEA
Centralia C	AFT
Clark C	NEA
Columbia Basin CC	WEA/NEA
Edmonds CC	AFT
Everett CC	AFT
Fort Steilacoom CC	SEIU
Grays Harbor C	NEA
Green River CC	AFT/NEA
Highline CC	Ind
Lower Columbia C	LCCFA
Olympic C	NEA
Peninsula C	NEA/WEA
Seattle CC Dist 6 (3)	AFT
Shoreline CC	AFT
Skagit Valley C (2)	NEA
South Puget Sound CC	AFT
Spokane Falls CC Dist 17	NEA
Tacoma CC	AFT
Walla Walla CC (2)	NEA
Wenatchee Valley C	NEA
Whatcom CC	AFT
Yakima Valley CC	AFT

WISCONSIN

Blackhawk Voc Tech C	AFT/WFT
Chippewa Valley Tech C (3)	WEA/NEA
Fox Valley Tech Inst (2)	NEA
Gateway Tech C (4)	WEA/NEA
Lakeshore Tech C	NEA/LEA
Madison Area Voc Tech C (5)	AFT
Mid-State Tech C (3)	NEA
Milwaukee Area Tech C (4)	AFT
Moraine Park Tech Inst (3)	AFT
North Central Tech Inst (2)	NEA
Northeast Wisconsin Tech C (3)	NEA
Northland C*	Ind
Southwest Wisconsin Tech C	AFT
U of Wisconsin Madison	
teaching assistants	TAA/AFT
Waukesha Co Tech C (3)	NEA
Western Wisconsin Tech Inst	AFT
Wis Indianhead Voc Tech	
Adult Education Dist (4)	AFT

GUAM

U of Guam	GFT/AFT
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New Computer Software

The following list of computer software has been compiled from information provided by the publishers or by companies marketing the programs. Prices are subject to change without notice. For information about specific applications and hardware requirements, contact the publishers or companies directly.

ACADEMIC COMPUTING

Aeronautical engineering. "CAMRAD: Comprehensive Analytical Model of Rotorcraft Aerodynamics," for DEC VAX running VMS 4.6. Core memory of 4.04 megabytes recommended. Requires DISPLA package for graphical output. Helps calculate rotor performance, loads, and noise, helicopter vibration and gust response, flight dynamics and handling qualities, and system aerodynamic stability; can be applied to articulated, hingeless, gimbaled, and teetering rotors with an arbitrary number of blades; \$3,000; academic discounts available. Contact: Cosmic, University of Georgia, 382 East Broad Street, Athens, Ga. 30602; (404) 542-3265.

Biology. "Breeding Bird Survey Data Simulation," for Apple II series, Apple Macintosh, and IBM PC and PS/2 series and compatibles. Simulated data follow relationships taken from the 1965-79 Breeding Bird Surveys sponsored by the U.S. Fish and Wildlife Service and the Canadian Wildlife Service; population trends for 50 bird species are simulated; \$69.95; quantity discounts available. Contact: Oakleaf Systems, P.O. Box 472, Decorah, Iowa 52101; (319) 382-4320.

Business. "At Risk, Version 1.5," for IBM PC series and compatibles. Requires "Lotus 1-2-3." Software uses probability distributions and simulation techniques to evaluate uncertain spread-sheet models; allows user to enter ranges of values to any spread-sheet cell; Monte Carlo simulations tell the probability of any outcome occurring; \$395; academic discounts, site license, and student prices available. Contact: Palisade Corporation, 2189 Elmira Road, Newfield, N.Y. 14867; (800) 432-7475 or (607) 564-9993.

Communications. "Gateway," for DEC VAX using VMS 4.7. Provides process-to-process communication between remote applications programs in different protocol domains; communicating peer processes may be used on any paired combination of NETEX, DECnet, or TCP/IP hosts; \$3,000; documentation,

\$18; academic discounts available. Contact: Cosmic, University of Georgia, 382 East Broad Street, Athens, Ga. 30602; (404) 542-3265.

Ecology. "Aquatic Ecology-PC," for IBM PC and PS/2 series and compatibles. Seven programs perform calculations in aquatic ecology such as diversity indices, Hynes/Hamilton production, stream flow and current velocity, and lake morphometry; \$59.95; quantity discounts available. Contact: Oakleaf Systems, P.O. Box 472, Decorah, Iowa 52101; (319) 382-4320.

ADMINISTRATIVE COMPUTING

Counseling. "The Electronic CLASS: Learning and Study Strategies Inventory," for Apple II series and IBM PC and PS/2 series and compatibles. Electronic version of the paper tests that diagnose study skills; automatically scored, providing graphs of each student's "study-strategies profile," an alphabetical list of students who take the tests, and the percentile ranks of those students; \$5 a disk, plus \$2 a test for up to 99 tests, \$1.75 a test for up to 299 tests, and \$1.50 a test for 300 or more tests. Contact: H&H Publishing Company, 1231 Kapp Drive, Clearwater, Fla. 34625; (813) 442-7760.

Faculty and Campuses Represented by Certified Bargaining Agents

	Faculty					Total
	AAUP	AFT	NEA	IND	Other	
Public						
4-year	19,007	38,873	20,880	1,773	52,542	133,075
2-year	846	34,369	39,183	8,916	1,816	85,130
Private						
4-year	3,073	2,628	826	415	934	7,876
2-year	180	364	93	157	0	794
All	23,106	76,234	60,982	11,261	55,292	226,875
	Campuses					Total
	AAUP	AFT	NEA	IND	Other	
Public						
4-year	38	120	74	24	95	351
2-year	18	163	328	43	39	591
Private						
4-year	19	21	11	8	11	70
2-year	4	5	4	2	0	15
All	79	309	417	77	145	1,027

Campuses Whose Agents Have Been Decertified as a Result of Yeshiva Litigation

Agent	Year	Agent	Year
Catholic U of America*	Ind 1980	Stevens Inst of Tech*	AAUP 1982
Yeshiva U*	Ind 1980	Thiel College*	AAUP 1982
Mount Vernon College†	AAUP 1981	Wagner College*	AFT 1982
Salem College*	NEA 1981	Ohio Northern U*	NEA 1983
U of Albuquerque*	AFT 1981	Seton Hall U*	AFT 1983
Ashland College†	AAUP 1982	Stevens College*	AFT 1983
Curry College†	AAUP 1982	U of New Haven*	AFT 1983
Daemen College†	AAUP 1982	Boston U*	AAUP 1984
Drury College†	AAUP 1982	Polytechnic Inst of NY*	AAUP 1984
College of Osteopathic Medicine & Surgery*	AFT 1982	Lewis U*	Ind 1985
Ithaca College*	AFT 1982	Fairleigh Dickinson U*	AAUP 1987
		U of Dubuque*	NEA 1988

† Union voluntarily withdrew certification

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